

## ABSTRACT

A valve solenoid including a housing having two parts and which can be employed in areas endangered by explosion, a coil, an iron circuit, the coil and the iron circuit being arranged in the housing, and a casting compound introduced into a first part of the housing so as to embed the coil and the iron circuit whereby the casting compound prevents an explosive atmosphere from reaching live parts and simultaneously fixes the coil and iron circuitry and provides electrical insulation. The coil has connecting elements arranged in the second housing part which is configured to resist pressure in case of an internal explosion and prevents transmission of the explosion to the environment thereby providing pressure-resistant encapsulation.